RIYAZ FAIZULLABHOY

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EDUCATION:

8/11 – 12/14 **University of California, Berkeley**   Berkeley, CA
- B.S. Electrical Engineering and Computer Science (EECS)
- Overall GPA: 3.98, Major GPA: 4.00; EECS Honors Degree Program Member

ACADEMIC EXPERIENCE:

2/14 – Now **Intel Science and Technology Center for Secure Computing – Researcher**   Berkeley, CA
- Developed a feature extraction analysis module using Apache Spark on malware data collected by VirusTotal and McAfee in iPython, running in parallel on an Intel research cluster of over 45 cores
- Refined a variety of features from both the static and dynamic fields in the data, particularly file and mutex interactions. Features included approximating entropy, and searching for suspicious behavior
- Classified and predicted malware with high accuracy, performing a grid search to optimize hyperparameters of the scikit-learn linear support vector machine

8/13 – Now **UC Berkeley EECS Department – Undergraduate Teaching Assistant**   Berkeley, CA
- Organized, prepared, and lead multiple weekly hour-long discussion sections for machine structures (CS 61C Fall 2013, Fall 2014) and operating systems (CS 162 Spring 2014). Synthesized course content, including discussion and lab material, homeworks, projects, and exams
- Scored 4.8/5 on overall teaching effectiveness at the end of semester course survey

12/12 – Now **Eta Kappa Nu Officer – President Fall 2014**   Berkeley, CA
- Lead one of the most active Eta Kappa Nu (EECS Honor Society) chapters in weekly meetings, refining pre-existing services such as tutoring and providing new services to the EECS community
- Also served as Tutoring officer (Spring 2013, Fall 2013) and Department Relations (Spring 2014)

6/12 – 6/13 **Lab for Mathematical and Computational Biology – Researcher**   Berkeley, CA
- Added tools to the eXpress DNA and RNA high-throughput sequencing tool to benefit user experience, wrote parsers for varying file formats and manipulated data using the PySam/Samtools API to standardize input amongst all users to minimize user error

INDUSTRY EXPERIENCE:

5/14 – 8/14 **LinkedIn – Software Engineering Intern: Higher Education Team**   Mountain View, CA
- Built features from multiple levels of the stack in a Scrum environment, from Java services to client-side templates, styling, and Javascript. Also wrote Selenium and Java unit tests for these features
- Enhanced the notable alumni feature by building a rating system for school admins. The system was full stack: used offline Pig jobs and python scripts to compute ratings, which were further processed in the Java server layer before being served to a custom Dust.js, CSS, and Javascript client page

5/13 – 8/13 **Qualcomm – Software Engineering Intern: Target SW Team**   San Diego, CA
- Designed and implemented features for an Android application using the Android SDK and NDK to test all aspects of the newest Qualcomm Snapdragon chipsets
- Awarded a Diamond QualStar award – the highest honor for excellent intern work

SKILLS AND INTERESTS:

Proficient in: Python, Java, C, MATLAB, Hadoop, Apache Spark

Experience with: Android SDK/NDK development, Apache Pig, Javascript, templating, CSS, Git, Ant

Interests: Security, machine learning, distributed systems, international travel